ALTIMETE

4550.

51.25

6920.

MANOMETER

I. Peusion. (april 12) - Central anous. AhtimEter mANometer Broad: appr. 5 exactly 6 6900-6920 appro 9.35 mosent between 29,8 and 29.9 augus outer ring: a little above o K. Hyper Partwei (april 13) Contral arrows; Juall: appr. 06 6800 - 6889 Broad: Long appr 6,178 Junet 29.838 arrow were seve aliener with rene of

Altimeter markometer Brosel: 5.7. Broad : 5.75 5750- 5850 Long: 7,22 I Upper edge Claus Central anous Swall: 0,4 Broad: 5.1 5/251- 5/50 Long , 1,25 J. El Hato Central anows Swall: 0.4 4550 - 4610 Broad: 4.5 Long: 4.85 (The other wide cators were the same at all 3 of their last stations auour muir mig: 0.08. anour outer mug: 0.8. Dul: 29.8375.

Murch Houles 0 femunt 12,000 + October 4, 1960 Ceur Pruta Beginning work just below beefa parteure 6:50 a. m. Josep I. 2 Yellow tregles 2 foetycaps 1 Black-checked W: 1 Wilson. 1 Yellow thigh f. I hosty cap f. I Wilson's leaving without bott quite volated. They our flees over to attack the other! This is way Il & there is only one Wilson o per flock. group I I Have throat. I Muid Degealther. 2 Collered Reditorts group II. 3 Yellow-thigher. I Willow's W. & Black-diceled W. 1 Collared R. Wilson's W. always recues to be on the outstirets of wired flocks. Extracely peripheral! In Opening II, the Blade-cheelied W'a definitely did not continue to you the direction in which the Yellow digles went

- Murical obselve group II 139 Willow's W. 1 Eye-mugad Haibell 1 Willow's & - Flaterell. Opong I Some place - 2:20 pm.

3 Yellow - thighs 1 Yellow thoat 1 Wellow throat f -> Wellow thigh Group I above upper garture 2 Collared R, 107 Wilson's W., 1 Yellowerl Hycatelier It is obvious that the Collared Reditorits, the Wilson's Warblers, and some of the muallfly catchers (and punilly the Hame-throated Warblers) are not nearly as cloud confined to bruils as the bruils-tanagers and brush-Juiches. The well feed in and awang inolated tiles in the have parture, where the brush hirds apparently never go. Twee leday (once above and once below the upper partwee) I have neen one or two Red Squirels running around in the shrubberg near wh ere mixed Jealis of birds were Jacoburg. Libert both times. But last March 9 remember watelung a group of 3 squenels, feeding in much the name area as a nuved flock of berds; and there squerels were quite noisy - ultering harsh notes letre CN's or allow of some buch fuides (Titule) Overlages the equivel is really a meculier of these mixed floches too

Murreil Holler (3) He the upper parties !) feeding on the ground. Due bore aft wide trail

I have been much unprind by how quiet all the mind fresh here I bewerrow seen a pour of flate throated Rodutarto Cuptiere, above 3 Gellow treats, 189 Wilson's W. Wilson's j - Hellow- throats Openys TIT 2 of and 10 Wilson's W. (!!!), 1 Collared R, 1 State-> State Throat R 1 Callared R. j -Led juit alrove apound.
Reditants 1 algan now flate throated R. Jesting on ground, while Callwed K Reditants new to be only noisy in fleefet new - when they utter to 13 vel " Lut "CN". group IX 3 Yellow-thighis, & Yellow-thicats 1 Yellow-theat f - > Yellow-theat group X 2 Loote Caper, 1 Black-check W, a Yellowthizer, 10 Thesin 1 Sootscap & S

Mered Foller > Yellow-thigh. 1 Black Cheele j. > Black cheek Ce Yellow-thigh f I have used the term following in this count in a rather Tolefferent was from in our counts of the blee and green tanagers and honey L'acepers. I have included following ly copping as well as by flying. and I have counted each following hop reparately as long as the successed hops were reparated by an appreciable paure. The yellow stigle follow me the Black - check recorded above may be cited as an example. All ce intouces of Jollowie were really part of one reaction. The Black-cheeke was moving rapidly through the limber. The Yellow-thigh cropped after it pained, hopped organ, pained, etc. etc. etc. etc. October 200 auo Punta higreat bendarea 6:13 a un 6 Brown-caps, a Buff-fronted Volices-gleavers, 1 Selverthroat, 2 Yellow-thigles, 2 Chestunt-copped attapetes (!) 1 State-throated R 3 Foliage-gleauers j - Brown-cops 1 Silver-throat j > 5 Foliage-gleauers f. ____ Brown-cap (The augustion of the Chestruit-capped Cettapetes with this flo cle was probably purely coincidental, Just princing through,) 3 Yellow-thigh f Their Pocks received to four about 1/2 hour after dawn. When it was active and worsy (.. a the Brown-caps were worse) for about 1/2 To

Mercia Hochs 3/4 of an hour. Hour (7:55 am) the burds we large whent and comp araluses sluggille. I have great difficulty reacing the builds now but I I don't thuile the flock has actually broken my yet. 1 Fellow Terefor j. - > Brown copo > Yellow theyle 1 Prouve-cop j. 1 Brown - cap f. > Hollow thigh also 19 Yellow faced franquit and a couple of humany buds in flock temporarely. There was another overit of activity in the group around 8:15 a.m.; but their quelly deed down group I I Blue Favager, 109 Wilson's W. 1 Wilson's W.f. > Blue Chaup III a flate-thout R., 1 27 Willow's W. 1 Wilson's W f. - Sflate-thusals It was quite noticeable that the Blue Towager mentioned above I made no attempt to join the Prown-caps, althoughthe letter were quete mulle 1 and andible about 100 yards away Opoup I (again) 1 Yellow-threft f. -> Brown Caps I thenk the counts of group I today do not give a nally fair pe twee of the closeners of the augustion between the Yellow thefis and the Prown-cops in the Years. The Yellow-thighs steels with the Brown-cops alwest allthe true. The counts of journey and following are to low simply because the Gellow-theglis are so defficient to see woil of the time.

AMMER OBJELL I Pepper - struke and 19 Wilson's W. also joined the flerte ales 1 Lefet Cellred Roben for the first time the morning I now a pair of Black-checked War Hers down bere. They were not well a newed flock, however, (although lythe twe I now there warblers, ca. 9:55, the flaches had nother disappeared anylion) One aprect of group I their morning was nather morphing. The birds moved up and down, quite regularly along upp 750 yds of road. They morbred on both reder of the road, sometimes penetraling 50 yels or so into the bush, away from the road, but no more. They remed to be following a regular route, going clockswere around an inequilar oval. Again and aga in They never itaged out of this area, allteough there did not never to be any newed flooles (or any other brown - caps & themselves) on any ride! There were a few bruf burnts of acturity in the group I mived flocks until about 9:15 a.m. Separated ly longer and longer intervals. and then the winds guit disappeared. Orenwall returg. Dan faerly certain that the 2 heids I have cited as "Buff-fronted Fol I case-gleavers "above were indeed Philidos rupus. It is juit barely possible, I however that they were anabacenthia variegatices or Cravioleuca / erythrops, I must check with rheirs. mary case, this pair of Foliage gleavers was obviously very I very strong attached to the Brown caps (probably even more so than the Yell & ow theles). Stude with the Brown-cops almost steadily Followed them ever as a result of two days alexerwateon here their trip, I am leguming to thus that the newed fleches here, belie the newed fleches on BCI, tend to be composed of a partly defferent anomalions. Here they are the warbler as fruit and bush-tanger association (comparable to the tanager association on BCI).

One thing, I forget to mention above ... The Brown cops were couly very voising, this morning, when 5 or a of them were quite close together er, and there was a cot of excited booling leging back and forth, This fly me back and forth, This fly me back and forth was amally accompanied by lots of R. 19 think there R is were one, aftered in feefet In an case, they were the root of R which always makes me think of "CN Itel"s But were the root of R which always makes me think of "CN Itel"s But were fleghed on R's, the brids attend out, single CN's, or favily above were of 2 or 3 or 4 CN's. Thouth "Juck" Think, I think I there R's and fleght wint have been bos title. If no, there is attle hostility within the floore, even in the widdle of the non-breeding various. Interestings enough, brids of other species remed to be particularly likely to join and follow Prown aps when they were flying about excitedly and ultering lots of R's. The intra-specific hortilety of Brown-caps may be considered "attractive" to other species

Tituele the mured flools here must be more lighty developed thate the blue and green towager and bover reeper flools in the low lands. There are relatively more cases of overt following and journe bene. and I have

yet to see an inter-yrenche supplanting attack tiere!

The relationship between the Brown-cops and the Yellow-thighis is certainly not depredent on food. The Yellow-thighes often follow 20 feet below the Brown-cops

The Foliage - gleavers, however, are unally right up there with the Brown-caps. So they way well get used distributed by the Brown-caps

Musik o Fre group I 6 golden - nowned Warblers, 1 Bate-thiest R. 19/20deregur > Golden-crown W. 1 flate throat Ry > golden-coun W I flate Stress R f > flate-streat R-1 Woodcasper f -5 Selver thereats, 2 Parala W, Woodceeper, 1 Pepper revolu mayor V 1 Golden way W. , I green Jouranet, I humany bird 1 Selver-Viscont & ____ > Parula 1 Free creeper & - Selvertheoat 1 Parula ultra yenge figeil 2 felices throat witra yearfu fights 1 Golden-weig W. J. Seppendireles group I 2 Wilson & W. 2 Blue Fausger, I Selver throat I Papierelevele 1 flate-theoated R, 1 Boy beaded Freezen, 1 Black and white W., 1 White-winged Januager, 1 Chester Kirlieder, 2 Woodcueyers. 1 Blue J - Boy herded also a couple of Vale belled Rebous in group 1 Blue & 1 Kistadee supplementing Robin It is obvious that down here we are getting my beterogeneous "open overs" nuwed flocks, telie the ones in young necoul growth in the Coural Zowe It may be rignificant, the work, that I now my frist wher - menter one pluetting attacks, and my first intra-specific contact figlets, here in the flocks this afternoon although there are certainly yellow throated attapetes around by

Merrid Heeles

9

Josef rue a gave following a wired flock how on the afternoon of Oct 3 the stay I carwied). I think they probable join mired flocks has frequently been, busine Hellow things are about from the area (and Prouve caps we self-atmet, nave).

The Golden-annul Warblere are very nown when morning about.

Within "Int" cells, accelerating into a CN fill in flight. Here notes are are a louder and aborger time there of the Black-distinct Warbler.

9 thinks (list am not were) that all the Wood wagers I have seen this afternoon have been Spot account Wood weepers, Legislocologites affering

Group II (again) There was quite a heavy remafter my last abservations recorded above, but it qually stopped on \$:30 pm

I then went brails to Group II and found it still very betero

queous

Bry their time, at least 3 Brown caps had gound the flack
They did not never to be very "nuclear" in this flock Other you

us were not resitued to them very frequently (I saw no definite cares of fall

owned or goings). I unaquie that the Brown-caps were less "attractive" si

riply because there was too much competition "around — expenially the very

rivers films-threats and Golden-crowned Wandlers. You could havilly him

the Brown-caps in the general dies, and many of the other species in the flock

were at least as senties as the Brown-caps

Ceur Picita

6.15 a.m. Wallering right at the level of Cour Prenta

" Meller of to seller 3 Brown caps, 1 Here threat; a Opter Forceuts 1 Housevet 3 -> Beown-caps Group I 2 Brown caps, 3 Och - wented Roberts, I would fly atters, 19fellow-things, 2 februar threats, 1 falitairie, 1 Hours who well I. 2 Robers J - Brown-cap. - 1 Robert & - Brown cop a Robert supplanting believes throat Group III 3 Brown cape, 2 Millow theyes, 1 Pale-wented Robers 1 Will 1 Wood augus, 1 Reddy-capped Wightengale-Unterly 1 Oproun - cop & - Jollow - Unefter Thus Brown cop newal to be attracted by a burnt of Wel am I any the Willow strates When the Yellow theyter began Will, all the Precion cays began SR, and one flew over to the tell in which the Yellow Mighes we 1 Hellow-thigh by a burnt of 5P - my lighte Brown caps recur to provole a brient of quite loud "Jule" IN a by the Gellow thighes (who had been releast by Here a general breat of calling by all the brists with group, wiched 111 7 mg the Wood eneper 2 flate-theests, 1 Welson's W. Thought I 2 Prouve-Cope, I felice-threat, I Collared R, I Have-throated R, 1 Golden-wung W., I Guern Foucaut, I Wilson in W. 2 Black and why

	que	wed Halle	-	IL
te 1	Ny 19 Versilver 525			
group I	a Hellew-theoats	1 Flourit 1 q Avil	108 S. M. , 1 Polache Mich	ed
	1 Supplementage ette	thy F Wilson .	Yellow thouse	
any I	2 Hellow-theoete,			
Aroup title			Colland R. 2 Red Jan	col
	1 Gollow-the for 3. 2 Collow-the for 3. 2 Pepper sterelie 5 1 Gellow-the for 6 1 Red-forced from		> Brown-caps > Brown Caps	
2		-	is that the felier there	r to

I think for my observations this mount of that the filier throats are not really nuclear members of these flocks Thouas less regular arrowinters, mon or less lette the fangues in the blue and open tourses and honey negure frocks

Group TK (publisher never as VIII about) 2 flate throats, & Blackburnon 2 Prouse-caps, 1 Yellow-thigh,

Much Hacke group I (Probably with the same as I about) 3 felver- (works, 2 Brown-cape & flate-threats, & Blue T, I govern fourauct, I wind. Slegestetier, 1 Wilson's W., a Pale-wested Roberts 1 Robert unsuperating Selver theoat 1 Rober witer yserific rupy lant Coliverice hortite) The Robert is centrally a most aggressive species. Obviously a duringt we force in the mined Jeveler. There particular robers recent to have a guidge of cust felver throats The State-Theoated Redstarts do not new to be sucleared their flech a They we juliages more often monated with runsed flocks than not flect this don't reset to the other years was compressively nords the others reset to the in new conspicuous. October 7, 1960 Cour Penta Group I (Me same as group I, Oct 5) 6 Brown-ears, 2 Rufour fronted Joleany Gladeurs, 2 Gellow theolis, 1 Wilson in W. , 2 Selver Thurst > Brown Caps. 7 toleres gleaners > Willows W. 2 Brown Cop f. > Preside Cajes 3 Willow W. f. 3 Yellow thugh f. 2 Yellow-thigh j. > Brown caps Glorinterte under weles of the murgo of the Previor capo are very consquere ous in Reget and during WF's Typical Rach pattern

I felver theoat rupplant up Brown cap also 10 Lucius Lavages (full stall pluming) in florely = Pepper-strike, 19 Red-General Barbet of Gellow-thigh f - > Brown offs 2 Fellery gleriet & 3 Jolives of somes of - Ossawa-capes 1 Theast fearer f 1 afellow-thefe fine - Solvey yearner 1 Foliag glenner G - - Hollow thigh Hus flock, today received to cucitially the same as the day before yeter day a goupe Prouve care, "attended" us a gain of Hillow- Three and a pass of college. gleavers. First verance active around 6:30 on 6:45, and dead by 7:00. Dean a lettle mon of the formation of the flock this monning. When I first I arrived, I saw out a little group of appr. 3 Proun-ceps, fading actively but quet le . The Yellow-tufes were moving alrest nome destance awar from the Brown-cops apparently not part of the nurved fleile yet but beading inequally in the general de rection of the Brown-cape. There, around 6:30-6:45 there was a under outburset of SR - we among the Brown caps. At the time, I noticed that there were at least a Brown-caps in the group. What I unaque happens is that the family parties of Brown-caps alsop reparately, and salgensember one another now time after down The gentecular flech never to contain at least two fourt parties of Brown caps. (I naw no rigus of aughterds migring on territories there their monning.) Of the name time that I leard the buy burnt of SR- my among the Brown-caps, I naw that they had been yourd by the Yellow Milion the Foliage-glowers, and the Wilson's Warbler Tunaque Wat die Gellow-tugles and Foliage gleavers put start to feed at down, and their attach theunelies to the Brown caps whenever their beginner to nece wito there. If they haven't new weto the Brown-caps before the latter begrirther progresut SR-ung, their they ment certainly join the Brown-caps

Mill of the as noon in the SR-ugliegers. The mund flack taday high within the name boundaries as the day be fore yesterday, but its movements within thee boundaries received to be concern at more megular today. I hnow that their are Hellow throats martie edge of the facts is nauge (frost actually inside the range). Why don't they you the fleches??? The amountain of the felier-theest with the fleile this morning was were breef. When all the birds were feeding in the tree-tops. Out their true, both the filmer themas and the Brown cops were particularly nous, - there a years do recu to simulate ou another succal powers. Also negactive But I could on't really wolate any particular following or jaming resitions altrough tel ner throats do rewettines come verlow, within 2 or 3 feet of the ground, they some to be primarily wirds of the tight the tops. They seem in light the tops mou often than do the Brown-caps. I wonder if the Pepper-should in a regular member of these Scoles? The Willow's Warrele is lettrally perfected. always on the orelativits of the flock. The Brown cops certainly do not new to have any your call which To promultite uncertworous flocks on BCI.) Working in a new place. On Lewes is property, quit above great build 2:05 p-su 1 Empideman Segentities, I flate theont, 1 of Wilson's W (Jones) I Hete theat, I Black chick W, 1- 37 Wilson in W, and I Wien

the Black which Words is also when them " Freet "CN's Lawyle on wateret when wet to the Greek letter the Told of me Greek letter the ECN's of allegates app. There is a better the State of the the

Group II 2 Willow throats, 19 Willow's W

1 Villow throat supplenting Wilson a

1 Villow throat f - Wilson a

1 Wilson of Gellow throats

1 Wilson of Syllow throats

Group I & Brown-caps, 1 Gollow-thigh, 1 Sum or & Lummer - 20 Will now by W. 1 Graph breas fly catalier

I wonder when the Wilson's Warblers are not followed or goined more ? They are no norse, active, and brughthy colored Berhaps because they are usually might they only retter might be usted that the 2 Brown caps in the grown paleon would work for apart, and they remain to be usual less attractive the an way other Brown caps I have reen.)

October 8,1900 Cerro Printa

Mortuniz below copper parture 6:30 a.m.

(our a severy verd, our a gair) flying about without attenting an obvious attention from any other spices I have also neen congruenous nous and active Block-challed Warblers rosve around without being fallowed argonical There seems to be unch less tendency to form unvert flocks here now than at lower cellulates (Or is it just that the Brown-co-productioned nurse attractive thou ongthing liene? Groups I Wilson's W. I flete throat Openy II 3 Gellow tuges, 2 Black cheeles, 1 39 W Dien's , 2 Collord R. I Pale vented Roben, a foot Caps, a Groug-Villed Barbeto > yellow-theyles 2 Black luck f. > doctions 1 Gellow theeling. 2. Yellow things j The footy caps are remerbally relent at the time of year I thank that the books cops are mountaining tentors, or at Ceast defense te leons range, bero now. So, apparently are the Gellow thefes Blancyet to see netra specific frefets in cetter species; but paves & family groups recento be well-reparated The Gellow-things now new to have regregated out of the rest of group II. Feeding on ground by themselves -It is always if course that the Gillow-thighes down below were also manutaming territories or home ranges (militer the Brown-caps). Here mor e than I family party per nuvel yours. May of the Wellow- itules both here and down our going about in fam ily parties of 3 (never mou), counting of 2 adults rud I young. So their is def

Muried Bocks

with not the bushing was for their Che to any a water on Pagagetto. group III (still) Scotland R. 1 Yellow thigh f 2 William n. 3 [[] 後 a squeech with the feels again! 1. Proug billed Burbet & > Yellow trights 1 Brong- Villed Berbet & > Yellow - ilights I Brown copped Vices also your flesh alio human glorado 2 Presure cap Vous 1 Collared R 3 1 Diglacer in flaces, and I folitarie, and I Flaces themat W. 1 Diglocea J. > desteraps 2 Collared R. J. > Lootzapa - Gellow they 1 foots cap f 1 doct cop 1 > dolitave I Open Journal in flock now. It were observed that there is no special relationship between the yellow I threfes and last cays here The Yellow trufes well follow boots caps, just as they I will fellow almost aughtung, but they do not new to be firsted on foots caps in the way they are on Proure-caps I think that the "garth independent workler accountion withouter out the Bed starts level pourly, the How theset), with the wevertable attendant Welson's Werdelers. It does not recent to white the Black-cheeles, which are punished 118 lunds of the interior of source

Ceur Punta

approved Park Walking below upper parties a: 30 a - in -Group I 3 apllow theat 1 Streeg W 2. footycops, 2. Calland R. 1 William, W. 1. Green To usant, 1 Hellow theeps, a Regogetes, 1 Brown appell Vireo 2 Collars R. f. - Stock copes R. Wellow teegs 8 ---1 Collassed Rf -1 Prouse copyed Vireo 1 -5 Williams Wy _ ____ Collared R. also 2 & Bane - Utreated Warblers in flock 1 Blave throat j - > fooligaps also at least & Free-cueyes in flools , + a favorace o Carique! and a Brade-diedred Worklore also couple und frateliers. a squal with the flock again! also I wrenge I that the Tura four genteen that the woodlonger with this flock is topil occupies affrons. It is staying with the flock merclang forquete a long time. (This mayalis be the years) saw with the flores guit above the Clauss a few days ago. 1 factscaps -2 Cellared R. J. I think that there is only one large flock in this whole area Quite diffure, splitting and re-zonang in rather annelord failuren. Osmblya few weren mull feeles (no more than 2 or 3 burls) are never or less reparate nevert of the Time Getteday moning this flock formed rather late Cafter 7:30) and remained compressionely active for greete a long time. Her moning it formed ear been treez shortez after Januard) and did not remain conspinuous gaitur very

Mixed Flocks the far as I wish tall, the formation of the large flock was a wing carried process, both today and yesterday. The winds great drifted together The annully culla Frot even burite of Sk by both caps. Were are quite a lot of a welf or muntione Fless - whomak Fourgers here They recent to been themselve quite dutenct from mercal fleches ment of the 1 Spellow-Tuyle of > footgages 1 Wellow - theely of > forty cops 1 Collared R. O October 10, 1240 Cour Punta fame place 6.30 a m. Watetung a press of Black-cheek Warblers fooding by themselves for quite 10 surretes House, Francescen which noften vinited by the large were ed flack. and yet they were not followed or sound by anything! It center ruly looker as if they are not mentable! They didn't try to your anything else cetter to I thuk this year way be clamified as "occasional pening much Group I 3 Wellow-tufes, 2 Blech-cliceles, 1 Brown-cap Vinco, 2 Scoty caps, 29 Willow & W, I flate throat R., a Colland R. a Black cloude f. 3 Yellow theyles (There were not the Black-cliesles which were not followed or journal earlier.) 1 Gellow-thigh y 1 Intra-rejulie figet between Uslows Wirblers 1 Oslach-cleek 1

MULL FREEZE 3 Williams W G Two squeels with the flock again Watering the fourt pair of Black-clicely again Still not being followed or yourd (although there are Wilson's Warblers, Legalitiers, and theleour theyles, at least, in the neighborhood) Mere us found of 3 Hollow thefer here while her love moving I about by trul for quel a long true now It was directable with the large floods carrier the rumming but the warblars (wolth took cans) flow-off and the Hellow-steeres made no villengt to follows). It is my un premion that, here and now, with the bruils - whalit me markers and built tangers (i.e. the Black-charle and the footycop) being so relatively un-attraction, the Wellow-theyer tend to regregate out from the record feciles quete frequently - nucle rese frequently than lad therely there land much more frequenty than the Willow triglis lower down now who ne the Brown-cops are active and noisy) I think that the relative un attractiveners of Place cliebes and up eccally foots caps here now towns and with last Harde) muit be due to the fact that they are less noun now , Thus indicates that more, not color or movements, with principal constituent of yrees altereleveners > flate theort 1 Collared Rj > Helt throit 1 Brown-capped Vireo J 1 flate throat f a Wilson & Wy 2 Free energees Crawe years as yesterday) sho in flock

Allund Howers Greenber 8 1760 Reo Pestras Group I 19 Gelow Rung 1 & yellow-Rung, 19 bragge, 1 Pelm 1 & facuspe f -- 4 Yellow Remp. The Peles in this groups was fording was down low, no more than Groups 1 9 Variable, 32 Hollow-Rewys, 4 Palms 1 of Yellow Rump of Solution > Palu 1113 agree, their Palous were very low group I 49 Hellow Rump, 127 Hellow Rumps, 127 Sourges 18 Blue Black growquet. 3 Main-coloud Jourges (1), & golden Marlied Foreagers , I Blue Fernager, I Panema Wien, I green breits 1 Fland 1 a Pur godo I case of Gellour Rungs defuntet not being followed 1 Blue j - > Planis I care of Gellow Rump defentets not lang fellows 1 Golden waite 19 Yelow Prup f -> green book

In this Cast fixely, the Blue Golden work - Blaus group soon left the Oleanyliseelies epoup. I I the ouristeen between the two groups wa a purel "carnal The Blue, GRien-marker, & Planer were, beaver, feeding que ite low much fitte time; nather like the Palms I now with yellow Rumps evilver Dalson row a record flech of Blues and Golden washes enrices this morning. They were feeding only residentely low, and legit quite apart from Khamplevelus. The Hellow musps certainly do not never to be muchan for any of the also I Bleck apped falt to majoup group II 29 Variables, 19 Hellow-Rump > Variables 29 Yellow Rump 1 1 29 Yansable, 1 2 Yellow Remp, 127 Yellow Berry group I I care & Helsow Rump definite not being followed 1 & Hellow Promp; 1 Palen, 12 Variable, 12 Variable Group I They are quarter, on the whole, than I expected. Quite when they were all executed by me.

They prequently occurring groups of 3 -6, but apparently rivigle

Murred Florelin I bender and pours are not union now They are just watered all along the edge of the wier. Not all division into almost pleasure florer I have been never never by how few other built fellow Gellow. Charges. Otto be how from frenchte they follow state beide. It is easing to miagness that the Yellow Rungs could become a much east yeares in other circumstances. How they resent to be presented from be oning rudewally a factors. I They cannot be garrier rudlear because of er years don't texet to them 2. They count be really active nuclear be cause few or now of the other excuss in the region we as closely confined to rever edges. Thellow-recups also tend to stay lower with negetation than nunet other toudgers.) are resitue to the Yellow Rungs. It was be required from that the Jew Savgres I have new how all been anounted with Gellow Rusyn Movember 18 1760 Res Padras Army I 4 & Yellow Reings, 189 yellow Rumps, 1 Clay coloud Flowish, 19 Junear Dunger, 2 green-backed Spanisons, 189 Barred aut-I can It Yellow Rump net being followed Julch, I was & Englished Bus Bus?), I Breff throat faltater. (Army)I 5 cases of yellow Rumps not being followed

R - 25 Tyellow Berry rest Berry follows 29 yellow Gruys, I Pelen Exurger, I Bull- derest falter group III + 9 Hellow Guys f > Buff thereat group II 49 Hellow Rumps, 2 37 Hellow Rumps, 1 Golden week Danney, 1 Hellows went Employees, 19 Lawyse > Yellow Rungs 19 Saugre o > Wellow-Ruges 1 golden-marks > Yellow-Runps 1 of Julious vent 1 I warragen impresent, testay, by leow remarkably infrequently the Yel Cow Rusys are gowed and followed - expensely in view of their enterior courses usures of the gold and follow Russyn I now testa were not account Tell with musted fleeles in any way Mer four fanges I saw tostay were Nayung low in the shrubbur even mon connectently that the Yellow Rumps. Applean Rumps de zo quite ligh in Trees with some appreciable frequence.)

May 19, 1962,

Mus morning I naw a whole group of lunds feeding and mounts in attribut along the navnie. Including at least 4 francis combiles, 4 Finibellies (a obviously forming a pair, the other 2 nather realtered), a pair of Mirangus olivi-cyanea, at least one I Diglono sterrina, one buil that looked very much less a Rufous-fronted Joleny-gleaner, various brumining birds, and probably nome other stuff.

playing a passive nuclear role. They were repeatedly followed by the combiles, and the a species, in turn, were followed by the olive - cyaveas. But their the Fire bellies moved fronteer on, into some ties, and were not followed again. The whole group record to dis

perse un'au mobbruine way.

The Firebellies / being very conspicuous) may be as attractive as possible to liveds of atter species, without having developed any up and wellow themself designed to attract liveds of atter species, and welliout being the object of any special inter-specific preferences. I have yet to me are night of an active vinclear species here

May 33, 1902 hono

There is a your of Mysolows here o's a q 's apparents it enteal. Quete remarkably ounter to attentes refinieller, except for yellow eye-ring and white practices on tack.

always in pairs (at react now)

Stadiu encelypters trees, at same levels as Diglossopes. Lochen of for asserts in the same way. Also food in south, in some dreas as Diglanopes, D. alerrena and (probable) Commostrum. as far as I bruser, to not feed on flowers or nector.

Most be an important competetor of Diglenoper (at least). Does not fly catch like the Chiriqui raditarity (greenen elles there are no metable (les bare)

Illers lets of "Trit" "CN"s. formetwees decelerated letter Frit's

of Differences Perhaps atters "Fak 's as well

lung", and unally or always welling with a dituit "Tazzezez". Ignores and as ignored by Digrouper - every when feeding wetter of the Cather,

Sutra-Specific Diglets Cono Pecuta

Parula W. 1

Schen-storoat 11

Wilson's W 11

Hellow throats 1

Pale-bellied Thrush 1

Supplanting Cono Punta

Kilkaelee > Pale-bellied Thrush 1

Pale-bellied Thrush > filver throat III

felver throat > Brown-cap 1

Yellow-throat > Wilson's W. 1

Eneumann, 2 (1957) "The besids of the previous of Boras del Fort, Panama"—
Conder 49, p. 247-243

Sporophila terqueola and & aurita convenir anovatura together. also Votatinia.

Guscom, X. (1932) "The dutic bution of wind life in quaternala" — Bull amer Mus. Wat. Wint. 34

Volatinia nearly always in company with

Wetwere a (1943) "the birds of routhern Veracrus Mexico" - Groz US Wat Mus 3764, vol 93, p. 215_340 Ipocephila torquela and Volationa manonation

Catabierry avales Catameria viornata Whater Gellow Cill Ruferes under tall-coverts Much Register than plabeyers Calaturua Comochina

David's Glotes

Journe

Brownerp > Yellow thigh a footscap > Yellow-thigh 1 Willow Hugh > flate throat 1 Yellow thigh > Burna Cap 1 Gellow thigh > fortscap. 1 gellow thurt > Wellow thigh 2 Selver-throat > Brown cap 1 Spechled > Selver-Miroet 1 Slave threat > felver-throat

Lollowing

3 Gellow-thigh > footycap

1 Gellow-throat > Have throat

Supplanting

1 Red barded Barbet

> Beguns T.

Jutra Speintie orgales Brown-cap 3
feetical 1
fellow thish 2

March 8, 1759. Cerro Panta.

GENERAL COMMENT ON THE MIXED

SPECIES FLOCKS I HAVE SEEN NEAR
HERE ON THIS TRIP.

Augueral, mived species flooles are compressions for their absence have now. The only common mived forles we have seen are based upon the two redstarts, especially the Hate-throatel Red start and tanagers are seldon or never anomated with ruels flooles now

The nearest thing we have non to a nursed flock misolow ung tanagers or friches are a few anoniations of several species feederig in the same trees or limbers for more or less buf persons

much associations are probable purely "carnal"

Yellow- thished Fructies and Yellow- throated altopates are often fooding near together in the name hadges in the whole area from appr. 5000 ft to cappe. 7000 ft.

We once now Yellow theyland Jiviles anonisted with a flack. Could upon Black-checked Warblers wa forcet above 7000 St.

Down in the not tropical forest, between 4000 and 5000 ft, we once now a few Brown-capped Buili-tanagers, Jelier threat ad Fanagers, Wilson's Warblers, and Jenence Warblers, Jewing in the same trees and money about more or less together for a short time.

March 10, 1959.

ADDITIONS

Swie writing the above a coaple of days ago, I have been watching one or more ruried flocks in record-growth scrib a leglet freet at the 17000 (apps.) It. Covel. Band on Colland Rediterts always including 1 or 2 or more Wilson's Warblers and at least 1 gain of Yellow-thing trickes Sometimes including yellow thinated attached to attapetes, Soate capped Buch-tanagers, State throated Rediterts Slave threated Warblers (Yermerora gutturalis), Bleck checked Warblers (Basileuterus melanogenes), and a Guddy Tree-running the Colland Rediterts obvious controlling the direction of the move-runts of the fleck

July 11, 1959 Cerro Compana

MIXED "FEEDING ASSOCIATIONS" HERE.

On this trip here, I was surprised to find large groups of neveral species of tavagers here. All more or less feeding together in the name thes; and occasionally (at least) most of the beids moving in the name direction, eventually; but this rost of audication resus to be much loss or than the Rain Javager Slocks on Bano Colorado, a the Brown cappel Buch Javage and Colland Reditort Jeochs at Leno Punta

Mere do net rew to be any really "nuclear" years in the "Seeding amountains" ("FA"s) here now, although all the groups I have new re far have wicheled at least felicer throated a Bay headed forespect and farmy-capped Explorers. But the livids in their FA's reldow or never flow off regenter, one right after the other, as the

Maris-Blue - Balus way do on BCI

It was be right frant, in this convection, that although men of their species are quite nous, quing a lot of ch's, they now of them uther as was Cal's as the nuclear species of other feels I have watched.

The FA's here from time to time today. Among there were Black and follow Towagers (1 pair, Sorquite nome time), Blue Fanagers (1 pair, Sorquite nome time), Blue Fanagers (1 pair, Sora short time), a rwele of green Honey we pur (gera rhort time) and a weste of or a javi of Hapatei Fanagers (gor a short time)

March 20, 1960 Ceno Punta.

MIXED FLOCKS, 7000 JE AND ABOVE

The house only been watering flocks fairly light up the mountown all there all tholes mured flocks are still common, apparently not dinolved by the approach of the breeding reason

bas wichole several Collared Pedstarts, one pair of Yellow thistered Indies, one or wore Wilron to Warblers, and a owell burd or a pair of Scoty Capped Buch towegers. Probable also a pair of Yellow the oated attapetes in almost every feels, and one or more livids of one or more species of Denderologitals. At the lighest levels, one or more Black-checked Warblers are also closely associated with almost all Yells. Here throated Warblers, and even Diglemas, are remetimes anomated with the flocks, but they were to be less common and/or more independent at all their relatively light attitude

Constitudes where they were common during March of last year; and I lawyet to see Hern-throated Warblers quite as low-as I did last year.)

March 21, 1940 Ceno Punta,

MIXED FLOCKS, 7000 St. AND ABOVE.

I don't think my comments yester day were very penetrates

The leave actually been observing a hunds of Clocks. Below the perture the fleches are cuentrally compound of Hellow-truged Juille, Wellow-throated allayetes, dooly-Copyed Breth-tancepes, and Willow's Wenders. Olles miscolanious attles attemp from time to time, of course. Goder we were now a (Personetes more or loss assertated with a flexile below the parties) alsow the partere, Collared Redutants & Oslack-checked Warbler become negular "members of the flooles Calony with atter thuy armerl) Away the defaute positive rough reactions we have reen

In the feels were the following: I case of a boots Capped Buils Janages following a pair of Yellow this field Buils Juicles I care of a Wilson's Warteler following a pair of foots Capped Buils

Javagers

MIXED FLOCKS, GOODJE OR LOWER.

and twice follows a fleche of of or were Brown-copyed Built - tan agers.

March 22, 1960. Ceno Penta

MIXED FLOCKS, GOODJE OR LOWER

To day we now a most viteresting flock, quite low, almost at the upper edge of the "Clauses". It was composed of the following livids; at least 3 Brown,

Capped Bull-tanagers, I pair of Spelled Danagers, I of Scorlet the fred Danues, 1 57 Whom & Warbler, a Blue Danagers Definite Les moving about tragetter The only openal nord reaction we noted was one instance of a squalled Townger charming away the Dawn when the latter got too rear.

2 (and pretent were) between throated Jawagers, and I State throated British will state throated

They group would appear to have been a wirtwee of a Birghand newed flack and a low land mirriel flech. At may be rignificant in this connection, that it has been raining hard all along the upper part of Ceno Penta and the volcano almost steedly mice yesterday afternoon He rain has been much less lower down, marthe blanes. To perhaps the lightand feels have been moved downward.

March 29, 1960. Corre Punta

ALL MIXED FLOCKS HERE

Shoeles been the trup, a few things seem to be clear. The puncipal countitionit of the flocks in the Brown-Cap - Yellow thigh relationship or the facts Cap - Yellow thigh relationships This remests form the nucleus of all the really lange and compicuous flocks.

One or two Wilrow's Warblers urually follow early flock. They might be considered "parauter" except forthe fact that there loud CN's may wicease the attractiveners and collesion of the flock as

a whole We have near few or no obvious cares of Wilson a Warblers Jollow maggingourne other warmeduel builds in mixed flocks all or moit Wilson's Warblers just new to drift along in more or Cen the name gas and derection, at approximately the name yearly as any particular fearly the ly begin to be associative with at the time. The Yellow-throated Trush friches are even more "garantee" than Wileon o Warblers, entre contribute much leu to the general nommers of a nurved florer. at the reason, at least, the Yellow throats are also arp is pairs, and there is verier viore than one pair per flock. It is also barely possible that the Yellow thisats perform more "special" followmy reactions their the Willow's Warblers. (The roles of the tree-veryers auscisted with wexed flocks way not be very different from that of William's Warbler and of that of the Yellow throats The Grange tobagois also believe in a romewhat sim Ghe whaven of Block-checked Wardlers in relation to wired feeles in discussed in today's notes on Bankenterus.)
We have not very enough Richtarts anomated with feech lieve this trip to be able to add anything to megnerious notes.

Cour Puluidea, mar Hono May 25, 1961

On previous years, I get the impression that mirel flocks

of a primarued soughereds did not occur here

During my observations this year, however, I have new a few mind fleeles. Including almost acusting: allegates rufmicha, Digloria aterina, the lovel Newispingus", Through liquarieurs, the Black-until Warbler (Barileuterus rigrocrest ates), and a local species of Jurnaried Cratter Hyloridia-like wishape - encutially rufous all over, lighter below, probably wi the a dance steened through the eye). But I still think that such Stocks are usually purely carrial aggregations (nee below for the oue courprimeres exaption).

It may be significant that none of the years buted above

show much intra-specific gregariousuus

It may also be significant that mured flooles were much nuove conspicuous this evening there at any other time I have wat ched builds here It was very Joges this Evening, with wearly cons

The beal reditart (Mysoromes melanocephaleis ruficos ouatres) is definitely not part of the mired flocks have. It itays up in the trees most of the true, while the nund floches were unally

in moderate low-directive and hedges.

The only very testenct inter-yearfic relationalup I have noted was culineen attapetes refinedles and the total furnaried described above. This evening a pair of the furnarials remod to be following a pair of the Sui dies, quite iteadely, (when the birds were underturbed).

	ands.	March	Tollow.	Sums	Beneficial	Bears
Black-check W	IMMI	W/ !!!	M			20
gelden Com W	M.					200
Jan-austic	MMMM	IM MM		- 60		V. =
Collect R	IM IM IM	MM		12 MILLING	- M	18
Ball-houted			MM	Ja WWW		25

	no.	Hacky	The Recovery	Sums	Bauch	Semis.
Brown Corp	W.W.W.W.W.	IMM!			II W W W	WWW WILL
foots Cap	M M	**	58			15.
Sugar Muset	MMM	W/I				20
Goldon Migh	W.W.W.W.W	IMMMI	* FW WW	WIII.	MM	1 m
Julian Times	M.M.M.	N.				*
W. W. W.	M M M M M	M.M.M.		The state of the s		

GOSSIBLE CASES SOCIAL MIMICRY

Jange conquenous typant flycatiliers of contral american region Bright yellow breasts, stribung black and white stupe pattern on breast. Spends of the generica Megarhynchus, Pitangus, Myjozetetes. References "SUTTON, G. M., (1951), "Merican Bricks", Univ. Okla. Prens, Worman, Okla, STURGIS, B. B. (1928) "Field Book of Birds of the Ganama Canal Zone", g. P. Butnam's Long, 91.4 - London

GARTLY SOCIAL MIMICRY?

Destrian Minnery. He Black Drongo Dichwes adviniles, and a black Plycatcher, Melaenormes gammelaina. Fran brooks and oribes Reference: SHEPPARD, P.M. (1958). "Natural felection and Hereolity", Mutchinson & Co., London HUYLEY, J.S (1938) "Threat owarming coloration" in beside, with a general discussion of the biological functions of color" - Proc. 8th Int. Orn. Cougs., On fool, p. 430-455

Olse of wood "episematic".

Celeo itenses the fact that the same color
pattern may relieve reveal different functions.

FRIEDMANN, H. (1935) "Buil focieties" - from
"a Handbook of focial Psychology", clark
Thur. Pren, Worcester, Man., US a., of 142-184

groups general nurvey of roughlitz in different

Weaverbuids. a study in the beology of behavior gatterns." - From the Switterousan Report for 1949, Switteron. Dust., Wartington, pp. 293-316

ureful exacuple

WING L. (1946) "frences association in wenter groups" - Club 63, p. 507-510

GENERAL REFERENCES

COTT, H.B. (1946) "The edibility of livids: illustrated by five years experiments and observations (1941-46) on the food preferences of the hornet, cat and man; and considered with special reference to the theories of adeptive coloration." — Proc. 300l. Loc. Loudon 116, pts 3 and 4, op. 37-1-524.

Atteres that "soundelety" is a factor reducing nulunability. I recalio Mottrain

Celeo wentions that black or white are the most compicuous fall colors.

MOTTRAM, J.C. (1915) "The dutibution of recondary nevual characteris amongst brids, with relation to their liability to the attack of evenies." - Proc you soo soc. London 1715, p. 663-678,

More Water grown Cott.

"Hurley, 1734 and 1938.

White color of rea-brids. Called "synepisematic "by

ARMSTRONG, E.A. (1946) "The coloration of rea-burds"
- Burd of Britain, 2, 8 15-19.

DARLING FF (1752) "focual Ochavior and Survival - auk 69, p 183-191. Luts some advantages of gregamions feeding and communal defence against productors CONDER,



SOME ADAPTATIONS INVOLVED IN THE DEVELOPMENT OF GREGARIOUS HABITS

A hird usually reacts to the presence of other birds by showing several contradictory and more or less "incompatible" tendencies. It is often partly hostile and partly "friendly", apparently santing to join the other birds, and also attack them and/or encape from them at the same time. The resolution of such conflicting reactions is a particularly difficult problem in highly gregarious species, which have had to devise methods of both increasing the general social or flocking tendencies and controlling the hostile responses which are provoked by any close association of different individuals, (it seems to be very difficult, i.e. very disadvantageous, to dispusse with hostility altegether). Nost gregarious species have evolved specialized adaptive behavior patterns in order to attain both objectives.

The patterns which help to promote flocking are usually obvious and relatively simple. Thost all the highly projectors species have developed special social calls, conspicuous wing and/or tail movements, and (very frequently) increased seneral mobility or restlessness, all of which seem to be designed to increase the attractiveness of a social group and maintain cohesion within it. Seem gregations species have developed such characters without greatly altering the "hierarchy of instincts"; but others have also evolved a special, and more or less independent, "general social" drive or instinct which is not found in more solitary

species.

The control of hostile responses would seem to be a more complicated matter in some respects, and has been achieved by a greater variety of methods. Some species have evolved special displays (ritualized social signals) which may be used by one bird of a group to reduce the strength of the internal attack and/or cocupa drives of other members of the group, while other species have developed displays which help to divert the overt expression of hostility within the group into relatively harmless channels. The overt expression of hostility may even be reduced without the intervention of special displays, by directly reducing the response to certain particular types of hostile stimuli (without weakening the internal hostile drives in general). Some species may use different nethods in different circumstances; and these variations would also seem to be adaptive, in some cases at least, as they can be correlated with particular factors of the external environment.

FORE ADMITTATIONS INVOLVED IN THE DAVIDORS OF GREEK HARTS

contradictory and one or less "incompatible" tendencies. It is often partly hostile and partly "friendly", operantly unating to join the other birds, and also attack them and/or escape from them at the same vine. The resolution of such conflicting esections is a particularly difficult problem in highly gragarious species, which have had to devise aetheds of both increasing the general social or flocking tendencies and controlling the hostile responses which are provoked by any close association of different individuals, (it seems to be very difficult, i.e. very disadvantageous, to dispense with hostility altogether). Next gragarious species have evolved specialised adaptive behavior patterns in order to attain both objectives.

The patterns which help to promote flocking are usually obvious and relatively simple. These all the highly properious species have developed special social calls, completious sing and/or tail novements, and (very frequently) increased general arbility or "restlessness", all of which seem to be designed to increase the attractiveness of a social group and maintain cohesion within it. Some gregations species have developed such characters without greatly aftering the "historichy of instincts"; but others have also evalved a special, and some or less independent, "general social" drive or instinct which is not found in more solitary

species.

The control of hostile responses would seem to be a more complicated matter in some respects, and has been achieved by a greater variety of nothols. Some apocies have evolved special displays (ritualized social signals) which say be used by one bird of a group to reduce the strength of the internal attack and/or escape drives of other matters of the group, while other species have developed displays which help to divert the overt expression of hostility within the group into relatively handers channels. The overt expression of hostility may even be reduced without the intervention of special displays, by directly reducing the response to certain particular types of hostile stimuli (without weakening the internal hostile drives in general). Some species may use different methods in different circumstances; and these variations would also seem to be adaptive, in some cases at least, as they can be correlated with particular factors of the external covariament.

1

CLASSIFICATION

De related to Commostrum. I have labled at reveral species of Combills in the USNM. He plumage of the O's of rome Combills is surprisingly bright, with considerable black and/or indesant blue although the actual patterns are not particularly reminimizent of any Flower-purcers I know. (There remis to be considerable result dimorphism in all orwert of the species of Combills in which the of our brights colored. The 2's trul to be much duller.)

Below are discuptions of the brights colored of is of 3 species of Combills.

I sitticolor Black head a throat, blue back; sufous breast and belly.

I albifrons Generally black, with a white fourtead, and blue on the back and upper wing-coverts.

back, scapulars, and upper wing-coverts

Pelativel little aggressive

Relatively actually reduced

a relatively large proportion of lastility expressed ley

Lisplay

Pelatively few distant types of display.

Some special types of displays (_e rumeter)

Non-gregarious

Polatively aggrerous

Hostility net reduced

A relatively smaller amount of hostility expressed by

Lisplay

A relatively large member of distinct types of display.

Sew or no openial types of display

CLASSIFICATION

The tourgers, as a whole, would seem to fall rute the following ways groups:

I Euphonias Quite destruct

With some bright (frequently inidescent) blue or green in plumage.

also frequently black Secultives bright red or yellow Viry few spectes with dill plumage. Sever apparently always essentially identical

Janagrella

Otherochrysa

Pipridea

* Jangara
Inidesorrus
Delotteraupis
Stephonophorus
Peleelotteraunis

* Poecelotteraupes Baugsia Butteraupes

* Dulusia Comprocoma

* Alraupes ?

II Hed and Gellow and Bleek Janagers. Much more vare ed, although less nuccessful, than the Blue & green Tanagers. The typical members of this group are brightly colored, with large areas of red, orange, yellow (and, less frequently while) unally contracted with black. In alwort all there years, there is strong result dimerpluser, the q's being noticeably duller than the of's There are also a few members of their group in which both serves are deell, amall grayish or deve, and identical with one another they muglet be considered her-feathered years now of the species in this group has bright blue or green in the plumage. Universe a number of other, more or less abersants species which may be attached to it As. Ayrical Meaders of the group Spudales Rhamphotelus Orianga Philogother aupres Calochaetes Chlorotteraures Walia. B Celmont Certainly Members of the group Dellyphones Heterospengus Eucoswetes

* Otherdinocicles * Metrospingus Calyptophilus Ohaenicophilus Gerospingus Compsoturaupis? Jericossypha

I House acepers Quite austter publicu !

De Warbler & Leich-Cele Favagers. Probably entremely misc-ellaveous

* Chlorospingus

Grenescopius

Herrispingus

Herristanpis

Chrysottilypis

Eryttrottilypis

Prendospingus

Microspingus

Microspingus

Very problematical genera. also obviously miscellaneous Cyanicterus Orthogonys Generals Malacoturaupes
Srichethneupes
Cypsnaga
Prynhocoma
Hemosia
Mroturaupes
Constiraupes
Jamprospija
Orchestecus
Orcoturaupes
Schestochlamys
Linspopes

Agalan Paners Freder Greeces Place colonest Davisige Regular active mules fraces Oalu Javaya Blue Janager Green House georgier Regular auouales Blue Decues funner danage Quarional Parisie Undear Apreces Red-layed Police Housequeres Bananaguet ?

Occanonal auonates

White Could Danager?

Explications.

Begular Parwie Wellear Greeces Brown-capped Buch-towager facty cap. Black-cheele W. Regular auture Muleur Species Gellow- thefred Frich Willow's Warber Collared Peditart ? Regular ausciales Rufous fouted Volerie-gleaver Other gurnariids? Dovumet? Wellow-throated Bull-Grich flate throated Reditert Lunium Fanages? Robini? Duemousl auouates feluer-theoat freeliled Tauoges ? Home throated Warbler ? Cerrer-levelu Oroun-capped Vireo Over Forcovet Prong-villed Barbet, ? Harrie colored Tamages ?

Description of supposed Rufous-Scouled Februar gleener Jouleard refores Beels of week (a nown?) graysik Light itreals believed eye Jail and wenge (not rump) bright rufous

aux 4:30 a su.

Lots of BB granquito, reveral Streated Saltators, one give.

org Jangre wer elmost unwedentity

(at least 35 's and 39 's). And won Huakeds. That really unon ating with one another, altho all in same area.

8:05. Girst BT Nea. alone but in sauce area

Inve B&'s around

absence of PT's is particularly surprisings as there are lots of Coco and other palms around

as a remet of the abrence of these 2 mulear species, there are no "real" muved feaths around. Lots of anouatrous between different yreas, but all new to be ground "carnal"

MIXED SQUIRREL-BIRD FLOCKS

Mountains above El Valle - fept & 1762. A large nuncial flock of birds, including ant-birds and at least one tree - cueper. With a reddich ognervel (perhaps the unal low land Red-tail) were the center Birds obviously not mobbing the squir rel.